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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/089,024	07/01/2002	Thorsten Lehmann-Lintz	5/1272US	5481
28505 7	7590 04/19/2004		EXAMINER	
BOEHRINGER INGELHEIM CORPORATION			BERNHARDT, EMILY B	
900 RIDGEBU P. O. BOX 368			ART UNIT	PAPER NUMBER
RIDGEFIELD			1624	7.6

DATE MAILED: 04/19/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)		
		10/089,024	LEHMANN-LINTZ ET AL.		
	Office Action Summary	Examiner	Art Unit		
		Emily Bernhardt	1624		
 Period for	The MAILING DATE of this communication app	ears on the cover sheet w	with the correspondence address		
A SHOI THE M/ - Extensic after SI/ - If the pe - If NO pe - Failure t Any rep	RTENED STATUTORY PERIOD FOR REPLY AILING DATE OF THIS COMMUNICATION. ons of time may be available under the provisions of 37 CFR 1.13 X (6) MONTHS from the mailing date of this communication. ariod for reply specified above is less than thirty (30) days, a reply eriod for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, by received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a within the statutory minimum of the fill apply and will expire SIX (6) MC cause the application to become	a reply be timely filed irty (30) days will be considered timely. DNTHS from the mailing date of this communication.		
Status	•				
1)⊠ R	esponsive to communication(s) filed on 24 De	ecember 2003.			
	his action is FINAL . 2b)⊠ This action is non-final.				
3)∐ S	ince this application is in condition for allowar		tters, prosecution as to the merits is		
cl	osed in accordance with the practice under E	x parte Quayle, 1935 C.	D. 11, 453 O.G. 213.		
	n of Claims				
-	laim(s) 11-17 and 19-21 is/are pending in the	application			
	a) Of the above claim(s) is/are withdraw				
	laim(s) <u>15</u> is/are allowed.	on nom consideration.			
	laim(s) <u>11-14,16,17 and 19-21</u> is/are rejected				
	laim(s) is/are objected to.	•			
	laim(s) are subject to restriction and/or	election requirement			
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Application	·				
and the second s	e specification is objected to by the Examiner				
10)∐ Ih	ne drawing(s) filed on is/are: a) acce	epted or b) objected to	by the Examiner.		
	oplicant may not request that any objection to the o				
Re	eplacement drawing sheet(s) including the correcti	on is required if the drawing	g(s) is objected to. See 37 CFR 1.121(d).		
11)∐ Th	e oath or declaration is objected to by the Exa	aminer. Note the attache	d Office Action or form PTO-152.		
Priority und	der 35 U.S.C. § 119				
a) <u></u> □			§ 119(a)-(d) or (f).		
	Certified copies of the priority documents				
2.	Certified copies of the priority documents				
	l l Conico of the contitient entire of the continue of the con	ty documents have beer	received in this National Stage		
3.		•	95		
	application from the International Bureau	(PCT Rule 17.2(a)).	-		
	application from the International Bureau the attached detailed Office action for a list of	(PCT Rule 17.2(a)).	-		
	application from the International Bureau	(PCT Rule 17.2(a)).	-		
* See	application from the International Bureau the attached detailed Office action for a list of	(PCT Rule 17.2(a)).	-		
* See Attachment(s)	application from the International Bureau the attached detailed Office action for a list of the attached detailed Office action for a list of the attached (PTO-892)	(PCT Rule 17.2(a)). of the certified copies not	received.		
* See Attachment(s) Notice of	application from the International Bureau the attached detailed Office action for a list of f References Cited (PTO-892) f Draftsperson's Patent Drawing Review (PTO-948)	(PCT Rule 17.2(a)). of the certified copies not 4) ☐ Interview: — Paper No(received. Summary (PTO-413) s)/Mail Date		
* See Attachment(s) Notice of Notice of	application from the International Bureau the attached detailed Office action for a list of the attached detailed Office action for a list of the attached (PTO-892)	(PCT Rule 17.2(a)). of the certified copies not 4) ☐ Interview: — Paper No(received. Summary (PTO-413) s)/Mail Date, nformal Patent Application (PTO-152)		

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In view of applicants' response filed 12/24/03 the following applies.

Upon review of the contents of the file which is now in electronic form the abstract was found and thus the objection removed.

Claims 11-14,16,17,19-21 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

- 1. In amending a large portion of claim 11 the R12 definition requires clarification. Note on p.3 "C1-4 alkoxy group" appears to be extraneous. Should it be deleted?
- 2. With most of the text deleted in claim 13 the sole line remaining on p.8 may not be seen by the printer should the case pass to issue. A clean claim (vs. just a marked-up one) is needed.
- 3. In claims 11 and 14 commas to be deleted show a line above the comma rather than through it. See second line of p.3 and p.8 3rd line of claim 14.
- 4. In process claim 21 for route b) after formula IV "wherein" now appears to be extraneous. Also, "or with the reactive derivatives thereof" appears out of place since it is referring to formula IV and not (V).

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- 5. It is not clear why applicants deleted reference to claim 11 in defining the variables throughout this claim. Insertion of such would make it clear what the scope is for each and every reactant recited.
- 6. In method claim 19 what diseases or complications are covered by the term "the clinical sequela thereof". Specification gives no guidance and thus intended scope is not known.

In response to the above rejections applicants are requested to provide a clean set of claims (in addition to a marked-up copy) given the substantive deletions being made so that printing errors will be avoided should the case pass to issue.

Claim 20 is objected to under 37 CFR 1.75(c) as being in improper form because a multiple dependent claim cannot refer back to 2 different sets of claims to different features. See MPEP § 608.01(n).

Claims 11-14,16,17,19-21 remain rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. Reason #2 of the previous action remains for the scope of Ra as heteroaryl. While applicants urge their

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amendments overcome this rejection, it is not evident how given that the scope of "heteroaryl" is as broad as defined in the specification which is open-ended to the inclusion of other hetero atoms in 5-membered heteroaryls. Note the 2 rings only made as pointed out in the previous action. Applicants provide no sound reasoning why one skilled in the art would expect such diverse rings as pyridazines, triazines, oxazoles,tetrazoles,imidazoles,pyrazoles, as embraced herein at Ra to behave similarly to compounds made and tested. Evidence of art-recognized biological equivalency is not seen.

The obviousness double patenting rejection is withdrawn in view of the requirement that the het rings at Ra be monocyclic vs. polycyclics being claimed in copending 10/168486.

Claim 15 is allowed.

The claims' scope as now amended no longer overlaps with the acylated derivatives disclosed by Ohkura (WO'556). An EP equivalent which is in English is provided herewith.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Emily Bernhardt whose telephone number is (571) 272-0664.

If attempts to reach the examiner by phone are unsuccessful, the supervisor for AU 1624, Dr. Mukund Shah, can be reached at (571)272-0674.

The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

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EBeinhard EMILY BERNHARDT

PRIMARY EXAMINER

Group 1600